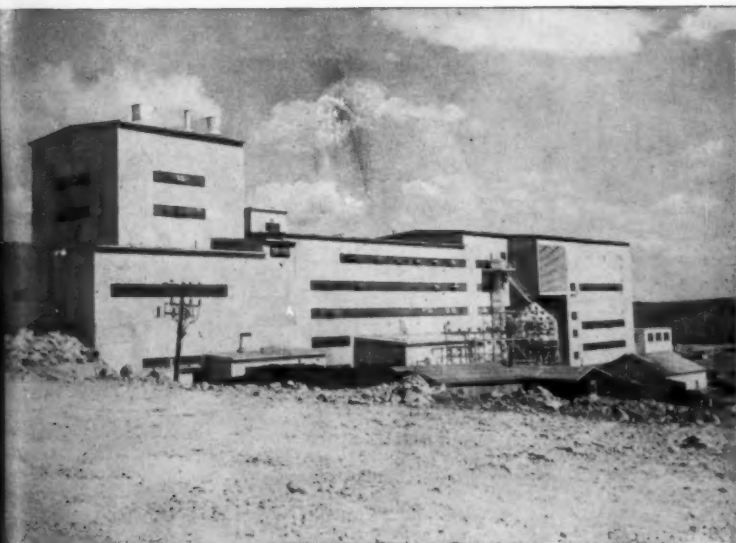


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Asbestos Mill at the Newest Asbestos Mine
Munro Township, Ontario, Canada

DECEMBER - 1950



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Christmas

The Season of Hospitality and Helpfulness

"'Tis the season for kindling the fire of hospitality in the hall, the genial fire of charity in the heart"—*Washington Irving*.

This is the real meaning of Christmas—hospitality - charity!

The present custom of "exchanging" Christmas gifts spoils the beautiful spirit of Christmas; give to those from whom you do not expect or want any return; entertain those whom you wish to gather around you at Christmas-time. Give practical gifts to the needy, sympathy to those in sorrow, help who need help.

The best gifts we receive are those which come from someone who appreciates some special service we have rendered them.

Roaming thru the stores a recent noon hour I returned in distaste; it was evident that the stores wished to get rid of a lot of merchandise at advanced prices because most Christmas shoppers would buy anything, simply to give a gift to someone from whom they expected one.

Why can't we have a sane Christmas, not one when just anything goes?

And the children, true, Christmas is the children's holiday, but don't turn them into a lot of little "gimmies" who are disappointed if friend Jimmie gets a larger gift. Teach them also the spirit of Christmas, the true spirit of giving.

Absorb the true Christmas Spirit and then you will have a really

Merry Christmas!

REVIEWING 1950

What was the most outstanding event in the Asbestos Industry during 1950?

Our answer would be "The opening of the new J-M Munro Asbestos Mine," as this shows the trend of the Asbestos Industry—expansion, new deposits, ever increasing use for short material, increasing demand for asbestos.

Second, in our estimation, is the use of asbestos in the air filtering industry, covered to some extent by our article on page 14 of our July number. This article necessarily did not go into much detail, in fact the subject cannot be discussed at length and perhaps did not give the impression of importance which it rates.

Research is becoming more and more important and is increasing in intensity each year, in the Asbestos Industry as elsewhere. We plan to use a research subject for our new cover picture beginning in January.

We have taken a rather hasty glance over the information and news published during the last 12 months and it seems to us that "ASBESTOS" has given to the Asbestos Industry a vast amount of information, more than ever before, in a one year period. We told you of new products or improvements to old ones made during the year; we gave you a lot of interesting statistics; judging by our news columns our readers have been very faithful in reporting events or happenings in their own companies; there have been new companies formed, some reorganizations of old firms, many promotions or appointments of important personnel, and (much regretted) the deaths of nine important executives. An important use of asbestos stressed during the year was in the treatment of heart trouble.

The members of the Asbestos Industry did a lot of travelling during the year, principally to Europe, but Japan and Africa as well, mostly for study of conditions in those countries so that better service could be rendered in the supplying of asbestos fibres.

In this resume of the year's activities we want to especially mention Johns-Manville's brochure on "Asbestos Fibre, Shorts and Floats—their Uses in Industry" which has been a real help to the whole Industry. Also the two articles by W. A. RuKeyser published in the March and May issues of the Engineering and Mining Journal.

Our intensive search¹ for patents has resulted so far in only 25 (compared with 35 last year). We have answered any number of inquiries, by telephone, in person and by letter, covering every asbestos subject imaginable. These have been discussed in our editorial pages during the last several months.

To sum up, judging by both personal and written comments from members of the Industry we sincerely believe that "ASBESTOS" is becoming more and more important to the Industry each year—we are here to serve the members of the Industry and this we will continue to do to the best of our ability. Tell us if and when you see new opportunities for us to render service.

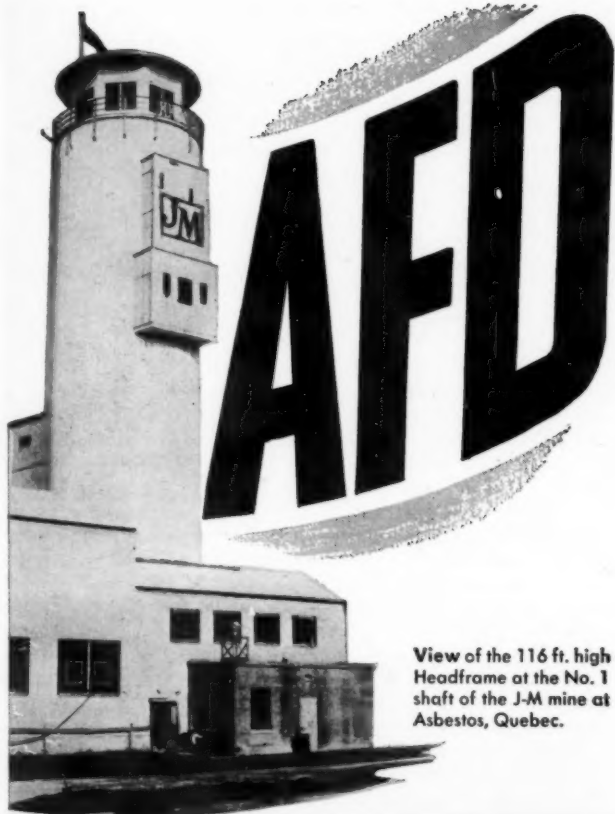
¹In the Official Patent Gazette.



*The one who has a lighted tree
Bedecked and tinsel-bright,
Receives unnumbered greeting cards
With pleasure and delight;
Who has a table, richly filled,
Beneath his private dome,
And gifts from all the family,
Has Christmas in his home.*

*But the one who hears the Angels' song,
Who lives at peace with man
And spreads the spirit of good will
In every way he can;
Who shares the sorrows of mankind
God's peace to reimpart,
Who loves his neighbor as himself,
Has Christmas in his heart.*

—ARCHIMEDES DORIA



View of the 116 ft. high Headframe at the No. 1 shaft of the J-M mine at Asbestos, Quebec.

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ACOUSTIC MATERIALS

(Third and last Section of Building Summary Report No. 72, issued by the National Bureau of Standards. Sections I and II were published in our October and November numbers. This Report is not available in Reprint form.)

Paintability. In common with all interior finish materials, acoustic materials must be painted periodically to restore a clean and attractive appearance. Unfortunately, painting is not always compatible with preservation of sound absorption. It is true that perforated and some fissured materials offer no particular difficulties as to painting. Also, a number of sprayed-on materials may be painted repeatedly without much effect on their sound absorbing power. But for a large number of porous non-perforated tiles and plasters, which require extreme care in painting, one injudicious coat of paint can practically ruin whatever acoustic properties the material had. The acoustic life of nonperforated materials may be prolonged indefinitely if the painting is done in accordance with procedures found by experiment at the National Bureau of Standards to be most advantageous.

First, non-perforated materials should always be spray-painted; they should never be brush painted. In trying to reach the sides of the deeper depressions or crevices in a rough surface, much more paint is applied by brush than by spray painting methods to obtain the same light reflectivity. When these crevices, which form the openings to the inner pores of a material are filled, the surface becomes impervious to flow of air and sound absorption is reduced. The reduction in efficiency is much more pronounced at the higher frequencies where flexural vibrations are not easily induced in material.

Even with spray painting, the paint should never be applied to bring the surface to the full color or shade of the paint. Rather, enough paint should be applied to hide the old surface only reasonably well. Beyond a certain point, addition of more paint does not enhance the color or increase the light reflectivity greatly, but it does lower the sound absorbing power disproportionately. The type of paint used apparently plays only a minor role. Numerous experiments at the Bureau indicate that the factor that



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counts most is the amount of solids deposited in the pores. In general, the useful acoustic life of many unperforated, fine textured materials can be considerably extended when these materials are spray painted rather than brush painted.

Test Methods for Sound Absorption. Before an architect can specify the amount of a given material which is to be placed in a room to bring its reverberation time to a predetermined value, he must know the material's sound absorption coefficients. The difficulty is that the coefficients are not a unique property of the material. They depend on the manner of mounting, on the area, and to some degree on location of the material in a room. Only a method measurement which takes all of these factors into account will yield absorption coefficients directly useful to the architect.

Reverberation Chamber Method. In this method, sound absorption coefficients are measured on large samples of the material, about 72 square feet in area, mounted exactly as they would be in an actual installation. Variations of absorption due to non-uniformity of the product are largely averaged out. Moreover, the materials are measured in a sound field which approaches the type of sound field which exists in an actual large room. For these reasons, reverberation chamber coefficients are used universally for architectural purposes.

The reverberation chamber at the National Bureau of Standards is a large room of about 15,000 cubic feet. Its walls are made as reflecting as possible so that reverberation times as long as 15 seconds are obtainable at the low and middle frequencies. Great precautions are taken to produce the uniform distribution of sound energy required by theory. The chamber is equipped with large rotating vanes to aid in diffusing the sound energy continually. The sound is produced by means of loudspeakers fed with frequency modulated ("warbled") test signals and is picked up by microphones. After amplification and filtering, the microphone output is led to a recorder which automatically plots the intensity of the decaying sound on a tape from which the reverberation times are determined. First the reverberation time of a chamber is measured when it is empty,

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and again when the sample is placed in the room. From the difference between the two reverberation times, and known constants of the room, the absorption of the sample is computed from a theoretical formula.

Area Effects. It is well known that the absorption of an acoustic material depends to a large degree on the size and shape of the sample tested. Because of diffraction effects, measurements on small samples indicate much greater absorptions per unit area of material than do measurements on larger samples of the same material. It is not unusual, even on a sample as large as 72 square feet, to obtain apparent absorption coefficients greater than unity.

From a large number of measurements on areas of various sizes and different materials, the Bureau has shown that the apparent absorption coefficient approaches a limiting value as the area of the test sample is increased indefinitely. Consequently, the sound absorption coefficients for surfacing materials obtained at the National Bureau of Standards are always reported after they have been corrected to what they would be for an infinite area. Obviously, such corrections cannot be applied to acoustic structure like irregularly shaped baffles. The results for baffles are reported in terms of the number of units of sound absorbing power actually measured for the particular number and arrangement of the baffles used in the sound absorption tests.

The area effect may be put to good use in acoustic treatment of rooms. A greater absorption than that indicated by the absorption coefficients can be obtained if the available material is distributed in small patches than if it is lumped into one area. The effect is most pronounced when the small patches are well separated.

Tube Methods—Acoustic Impedance. A promising method for the determination of the absorption coefficients of a material depends on measurements of its acoustic impedance, a quantity which is analogous to electrical impedance. In one variation of this method, a small sample of acoustic material closes one end of a tube and a source of sound is placed at the other end in such a way that a system of standing plane waves of sound is set up in the tube. The standing wave is affected by the sound absorbent proper-

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ties of the material. The acoustic impedance, and consequently the absorption coefficients, can then be determined from measurements of the source pressure variation in the standing wave.

The use of sound absorption coefficients determined by the tube method for architectural purposes is objectional because they are obtainable only for plane waves of sound incident perpendicularly on the material. In other words the sound field in the tube is not random as it is in the reverberation chamber. No satisfactory technique has as yet been developed for measurement of acoustic impedance for angles of incident other than normal. However, recent attempts at correlation of tube coefficients with those measured in reverberation chambers have met with fair success. Unfortunately mounting conditions encountered in actual installations cannot be duplicated on small scale tube samples nearly so well as they can be on the large scale sample used in the reverberation chamber. Consequently, altho tube coefficients are not usually of direct use to the architect, they can be employed to advantage in development and manufacturing control of acoustic materials.

Box Method. Besides the reverberation chamber and the impedance tube methods, there is one other practical technique for measurement of sound absorption coefficients. In this so-called "box method"¹ a sound field is created in a box about a square foot in cross-section with a variable length from about two to three feet. The sound is produced at one end of the box by a speaker, and is picked up at the other end by a microphone. A sheet of metal bent into a right angle is placed in the box with the apex of the angle upward in such a way as to deflect the sound against the surface of the material.

With an $\frac{1}{8}$ inch thick metal cover in place, the box is first "tuned" by adjusting its length until the output of

¹The box method described here was developed by V. L. Chrisler at the National Bureau of Standards and presents a greatly modified version of a similar method first employed by P. E. Sabine of Riverbank Laboratories (now part of Armour Research Foundation) at Geneva, Illinois.



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the microphone, as read on a sound level meter, is maximum. Sound level meter readings are then obtained for several calibrated 1-foot by 3-foot samples which are placed in turn on the box under the metal place cover. Readings on the unknown samples are interspersed with those on the calibrated samples. The coefficients of the calibrated samples, which have been previously measured in a reverberation chamber, are then plotted as a function of their sound level meter readings. The absorption coefficient for the unknown sample is then spotted on the curve from its sound level reading.

The box method is not suitable at very low or very high frequencies; the box at the National Bureau of Standards is used only at 512 cycles per second. At this frequency the correlation between box and reverberation chamber measurements is best. Even so, the errors are rather large, amounting to a probable error of ± 0.05 in the coefficient. Moreover, the method requires a set of reference samples covering a rather wide range of sound absorption coefficients. Also, the presence of an airspace behind the sample often leads to erratic results so that the box method as described is used only for measurements with the sample mounted against a rigid backing.

Like the tube method, the box method suffers because actual installation mounting conditions cannot be duplicated very closely. Its principal advantage is for control checking since the commercial tile-size samples required are not mutilated in any way during a test, and the measurements are rapidly made.

References:

1. Letter Circular, "Sound Absorption Coefficients of the More Common Acoustic Materials" published periodically by Natl. Bureau of Standards. Single copies free on request.
2. Federal Specifications SS-A-118a, issued by Federal Specification Board. For sale by Superintendent of Documents, Washington, D. C. Price 5 cents.
3. R. K. Cook and Peter Chrzanowski, "Absorption and Scattering by Sound Absorbent Cylinders", Jour. Acous. Soc. Am. 17, 315 (1946). Also in Jour. Research, Natl. Bur. Stand. 36, 393 (1946)

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4. V. L. Chrisler, "Effect of Paint on the Sound Absorption of Acoustic Materials", Jour. Research, Natl. Bur. Stand. 24, 547 (1940)

5. V. L. Chrisler, "Dependence of Sound Absorption upon the Area and Distribution of the Absorbent Material", Jour. Research, Natl. Bur. Stand. 13, 169 (1934)

6. Albert London, "Determination of Reverberant Sound Absorption Coefficients from Acoustic Impedance Measurements", Jour. Acous. Soc. Am. 22, 263, (1950)

Editor's Note: There are a number of photographs and graphs which belong with this Report which we have not attempted to reproduce, but anyone may examine them in our office if interested.



The National Bureau of Standards has issued a Building Research Summary Report No. 73 on "NBS Contributions to Building Codes" by G. N. Thompson.

So far as we know this is not available upon request, but can be seen in the office of "ASBESTOS" at any time.

... —

The National Safety Council, 425 N. Michigan Ave., Chicago 11, Ill., has recently issued six new training booklets for Foremen and Supervisors, called the "Psychology of Safety in Supervision".

The titles are "You Can't Change Human Nature", "What is Your U. Q.?" (U. Q. means Understanding Quotient), "Teaching Safety on the Job", "People Act Alike", "Safety Takes Teamwork", "You are Human Too".

Complete sets of the six booklets are offered to members of the National Safety Council at 90c per set in single lots with discounts in quantities. Prices to non-members are twice that to members.

... —

Dr. Alexander F. Robertson, a specialist in fluid mechanics and combustion phenomena, has been appointed to the staff of the Fire Protection Section of the National Bureau of Standards. Dr. Robertson will conduct research on the effects of damage caused by flames and high temperatures on structures and structural materials and on the improvement of fire-resistant qualities.

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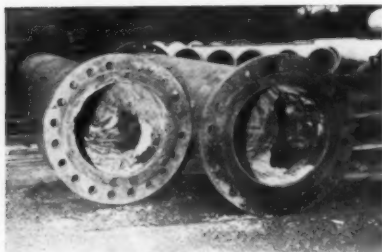
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OLD PIPES MADE NEW

The use of asbestos-cement pipe to line old cast iron pipe, thus salvaging some value from the old pipe and cutting down the cost of the new asbestos-cement pipe, is the subject of an interesting tale in the Fall Issue of the J-M Power Specialist.

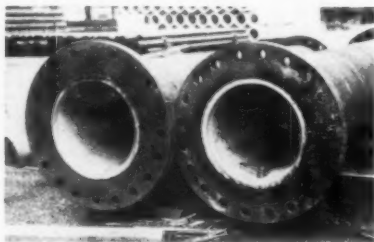
The practice is used regularly by the Glen Alden Coal Company, which uses literally miles of pipe in its various



The corroded cast iron pipe before lining.

coal mines. Years ago cast iron pipe was the best obtainable—it corroded in time and wore away on the inside but so long as there is a third of the thickness left the Company engineers have found a way to use it.

Glen Alden was one of the first mines to install pipe lines built entirely of asbestos-cement; four hundred feet



The same pipe lined with Transite.

of 36 inch asbestos-cement of the Transite variety was installed for mine drainage in their Truesdale colliery in 1934. Since then they have used Transite (J-M's trade

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name for their asbestos-cement materials) for many miles of both drainage and pressure lines.

Then someone in their engineering staff suggested the lining of the old cast iron pipe with the new Transite, thus salvaging the remaining strength of the cast iron pipe and cutting down on the cost of new pipe because a thinner walled Transite can be utilized. The idea was recognized as good and it sounds simple but it took a lot of experimentation until they found the right method. Now they clean any loose material out of the old cast iron pipe, insert a new length of the Transite, force cement grout up between the new and old and the result is as pictured. The cement grout fills in the worn parts of the cast iron pipe and fuses the two pipes into one unit.

Other linings have been tried but the asbestos-cement pipe is the most satisfactory or at least so we are told.

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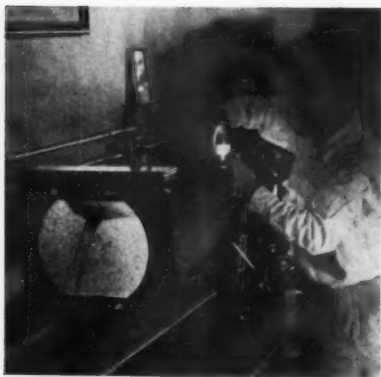
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Asbestos deposits must be explored and evaluated. Suitable mining methods must be adopted. The ore as mined must be sorted, crushed, screened, conditioned and separated. Milled asbestos of the proper grade must be selected for processing into each end product. The end products must be tested for conformance to the applicable user specification. Old manufacturing processes must be altered or new processes developed to produce new end products.

Certain of the large members of the Asbestos Industry maintain their own scientific and engineering staffs and their own control, research and development laboratories. With no capital investment, the smaller members of the Industry can obtain these services, at reasonable costs, from independent organizations in the commercial



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laboratory field. Even the large members find it desirable to supplement and to check their own facilities by having work done at or by turning specific problems over to such independent agencies.

A new brochure entitled "All Under One Roof" describes the many services available to Industry from Sam Tour & Co., Inc., of 44 Trinity Place, New York City. This independent organization of scientists, engineers, metallurgists, chemists and consultants with its extensive laboratory facilities is of immeasurable assistance to its clients in many fields, including the field of the Asbestos Industry.

Among the many tests made in these laboratories and applicable to Asbestos and Asbestos products are: thermal conductivity, electrical properties, Quebec grading, fire and flame resistance, moisture absorption, physical and mechanical properties, chemical analysis, corrosivity to metals, corrosion protection, microstructure, etc. A recent study in these laboratories had to do with the bonding of asbestos fibres with the thermoplastic and thermosetting resins. This work included the taking of color photomicrographs at high magnifications. Another recent study concerned the presence of water-soluble corrosive compounds in asbestos packing materials. Still others had to do with asbestos fillers in plastics and in paints, asbestos shingles and tile, electrical insulation at high temperatures, insulating wall board, etc.

This independent, completely staffed and equipped agency, is prepared to carry out the various tests described in Federal, Army, Navy and Air Force specifications as well as those required by the specifications of the Technical Societies and Associations. Thru its affiliated company, The American Standards Testing Bureau, Inc., it offers product certification based upon suitable periodic sampling and conformance testing programs.

... —

Plant Maintenance Conference will be held concurrently with the Plant Maintenance Show in Cleveland, January 15 to 18, 1951. Write Banner & Greif, 250 W. 57th St., New York 19, for further information.

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MARKET CONDITIONS

The particular factors affecting general business are the war situation and the uncertainty of the tax question.

Looks as tho building will decline in 1951 (19% says F. W. Dodge Corporation); demand for all kinds of goods, especially hard goods such as automobiles, refrigerators, etc., continues high; manufacturers of such things may be forced to cut production for lack of necessary raw materials, or for lack of *certain* raw materials, thus throwing the whole production program out of gear.

ASBESTOS — RAW MATERIAL

Demand for raw asbestos is still strong and, judging by the reports on the various manufactured products which follow, won't slacken for some time to come.

Increased production in the textile industry has put spinning grades in a critically short class.

Curtailement in building due to credit restrictions may reduce the demand for some of the grades of major use. No appreciable effect has been evidenced up to the present.

ASBESTOS — MANUFACTURED GOODS

Asbestos Textiles. Demand in this division of the Industry far exceeds production; defense orders plus increased calls from regular customers make long delivery dates a necessity. The backlog of orders is reported as varying for different types of goods from six weeks to four months.

Asbestos Brake Lining. Demand is greater than production; shortages of materials *other* than asbestos cause the large backlog of orders.

Asbestos Paper. Prices advanced during the last 30 days and the market is strong. Good demand has held about the same level all year and should remain at least during the first quarter of 1951 or even longer. *Saturated Paper* also shows a demand exceeding production, with a considerable backlog of orders.

Asbestos Millboard. Prices have held firm; some manufacturers even show advances. Demand is heavy for both commercial and equipment business. Backlog shows

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RAW ASBESTOS



REPRESENTATIVES

GREAT BRITAIN	A. A. BRAZIER & CO. "Avenue Lodge" 65a Bounds Green Road, LONDON, N. 22, England.
CHICAGO 4, ILL.	GRANT WILSON, INC. 141 West Jackson Boulevard
NEW YORK, N. Y.	CONNELL ASBESTOS MFG. CO. 117 Martense Street, Brooklyn 26, New York
SAN FRANCISCO, CALIF.	LIPPINCOTT CO., INC. 461 Market Street

up to four months. Future trend of course depends a lot on the war status, with every indication that demand will continue heavy.

Insulation. High Pressure. Volume is good with prices firm with upward tendency. One manufacturer reports being "swamped" with orders and expects the demand to continue thru at least the first quarter of 1951. Industrial business is expected to continue at the same high level as the last few months, and there is the expectation of heavy shipbuilding, hospitals, power plants, etc.

Contract prices however are being quoted lower than is justified with the heavy material demand currently existing.

Insulation. Low Pressure. Prices advanced during the past month which stimulated further buying. Scarcity of pipe for residential building may slow up this market, as also winter weather conditions, and some slackening due to construction and credit regulations.

Asbestos-Cement Products. There is still an approximate 30 day backlog on roofing and siding shingles, but new orders have slackened in the last two or three weeks. Indications are that shipments should be current by the latter part of December.

There is considerable activity in the Corrugated roofing and siding market and demand should remain strong during the first half of 1951.

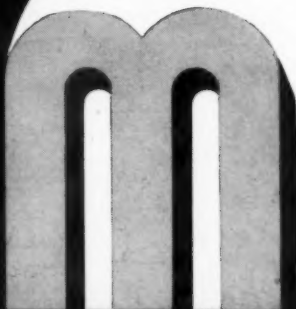
In asbestos-cement pipes a large backlog of orders still exists but this has shown little or no increase during the past month. Credit controls and new construction limitation will probably bring demand for flue or house connection sewer pipe down to or near the production capacity. Demand for water pipe will probably continue strong for some time.

The above comments have been sent us by executives in close touch with field conditions in the various markets. Comments are welcome from all our readers.

• • • —

Had we done an accurate job cutting the peace pattern after the last war we'd have had no scraps left over—*Wall Street Journal*

ANNOUNCING
... FOR ALL HIGH TEMPERATURE



MUNDET

CUSTOM MOLDED

85%

MAGNESIA

AND HIGH TEMP INSULATIONS

MUNDET CORK CORPORATION

Insulation Division, 7101 Tonnelle Ave., North Bergen, N. J.

ATLANTA: 520-41 Elizabeth Street, N.E.
BOSTON: 57 Regent St., North Cambridge 40
CHARLOTTE, N. C.: 507 E. Cedar St.
CHICAGO 14: 2601 Cottage Grove Avenue
CINCINNATI 2: 437 West 4th Street
DALLAS 1: 601 Second Avenue
DETROIT 21: 1401 Prairie Street

*Mundet district offices are located
in these cities:*

HOUSTON 1: Commerce and Palmer Streets
INDIANAPOLIS: 11 E. Washington Street
JACKSONVILLE 4, FLA.: 800 E. Bay Street
KANSAS CITY 7, MO.: 1428 St. Louis Avenue

LOS ANGELES (Maywood): 6118 Wilcox Ave.
NEW ORLEANS 14: 315-25 N. Front Street
PHILADELPHIA 28: 634 N. 48th Street
ST. LOUIS 9: 2176 Beaman Ave.
SAN FRANCISCO 7: 410 Beaman Street
In Canada: Mundet Cork & Insulation, Ltd.,
25 South Avenue, Toronto

Write us for name of our nearest representative if there is no Mundet office in your city.

WAGE RATE CHANGES

Wage rate changes for Asbestos workers (pipe and boiler coverers) as reported in the October 1950 issue of the Asbestos Worker (published quarterly by the International Association of Heat and Frost Insulators and Asbestos Workers) are as follows:

Albany, N. Y.	\$2.50	Lansing, Mich.	2.50
Albuquerque, N. M.	2.50	Louisville, Ky.	2.48
Austin, Texas	2.50	Minneapolis, Minn.	2.43½
Baltimore, Md.	2.50	Phoenix, Ariz.	2.40
Beaumont, Texas	2.50	Effective Jan. 1, 1951	2.50
Charleston, W. Va.	2.45	Port Arthur, Texas	2.50
Charleston, S. C. (Ex- cept Navy Yard)	2.50	Portland, Ore.	2.55
Chicago, Ill.	2.60	+ 10c W. F.	
+ 7½c W. F.		Sacramento, Calif.	2.50
Cincinnati, Ohio	2.55	Saginaw, Mich.	2.50
Connecticut	2.50	San Antonio, Texas	2.50
Corpus Christi, Texas	2.50	Scranton, Pa. Old rate	
Dallas, Texas	2.50	of	2.30
Dayton, Ohio	2.50	+ 7½c W. F.	
Des Moines, Ia.	2.35	Shreveport, La.	2.50
El Paso, Texas	2.37½	South Bend, Ind.	2.42½
Essex Co., N. J.	2.87½	Springfield, Mo.	2.37½
+ 3% W. F.		St. Paul, Minn.	2.43½
Fort Worth, Texas	2.50	Syracuse, N. Y.	2.50
Galveston, Texas	2.50	Texas City, Texas (Car- bide Carbon Chemical Corp. — Maintenance only)	2.14
Grand Rapids, Mich.	2.50	Tulsa, Okla.	2.50
Houston, Texas	2.50	Washington, D. C.	2.62½
Hudson Co., N. J.	2.87½	+ 10c W. F.	
+ 3% W. F.		Wichita, Kans.	2.32½
Huntingdon, W. Va.	2.45		
Jackson, Mich.	2.50		
Kalamazoo, Mich.	2.50		

Full list of cities with rates was given in our August 1950 number. W. F. (above) means Welfare Fund.

AUTOMOBILE SALES

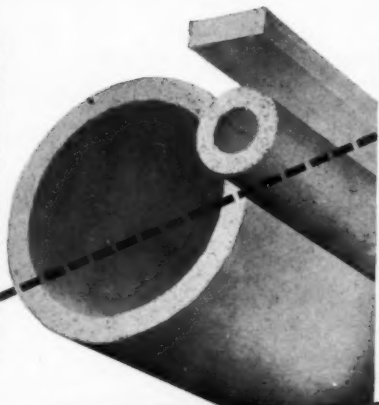
	October 1950
Passenger Cars	651,169
Motor Trucks	108,815
Motor Coaches	545
	<hr/> 760,529

In October last year 573,699 motor vehicles were sold.

Sales during the first ten months of 1950 totaled 6,758,418 compared with 5,438,795 in the same period of 1949.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Mich.

PIPE COVERING MADE IN SECTIONAL FORM
UP TO AND INCLUDING 18-INCH PIPE SIZE



COMPLETE RANGE OF SIZES AND THICKNESSES
IN BLOCKS AND PIPE COVERING

LIGHT DENSITY TYPE
PABCO

**PRECISION
MOLDED**

85% MAGNESIA INSULATION

"THE DEPENDABLE STANDARD — MODERNIZED"
REG. U. S. PAT. OFF.
U. S. Patent Nos. 2,131,374 — 2,209,752 — 2,209,753 — 2,209,754

THE PARAFFINE COMPANIES, INC., Insulation Division

(Formerly Plant Rubber & Asbestos Works)

475 Brannan Street, San Francisco 19, California • Engineering Service Units In Principal Cities



PRODUCTION STATISTICS

Canada

(Department of Mines, Province of Quebec)

Tons—2000 lbs.

Production September 1950 90,240 tons

Compared with September 1949 71,973 tons

By Grades:

	9 mos. ending Sept. 30	
	1949	1950
Crude	670 tons	442 tons
Fibre	207,573 tons	121,893 tons
Shorts	400,516 tons	241,115 tons
	608,759 tons	363,450 tons

Cyprus

(From W. Perry James, A. C. S. M., Inspector of Mines)

	3rd Quarter 1950		
	July	August	September
	Tons—2000 lbs.		
Rock Mined	299,943	333,631	275,446
Rock Treated	82,255	83,881	88,119
Fibre Produced	2,916	3,463	3,025
Fibre Exported	1,912	3,393	2,205

—

BUILDING

Construction contract awards in the 37 states east of the Rockies in October totaled \$1,135,815,000, or 12 per cent less than the September figure of \$1,286,541,000, but 7 per cent above October 1949 as reported by F. W. Dodge Corporation.

The ten-month 1950 total of \$12,245,561,000 was 45 per cent higher than the corresponding total for 1949.

The total of square feet of floor area for the first ten months of 1950 was 1,115,216,000, 57 per cent higher than the same total for last year.

Residential awards in October totaled \$529,867,000, a decrease of 4 per cent from September, but 6 per cent higher than October 1949. Nonresidential awards totaled \$426,820,000, 14 per cent less than the September figure, but 20 per cent ahead of October last year.

Public and private works and utilities totaled \$179,128,000, 25 per cent below the September figure and 12 per cent less than the October 1949 total.

TURNER & NEWALL LTD

RAW ASBESTOS DEPARTMENT

**FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS**

**ASBESTOS HOUSE · 77-79 FOUNTAIN ST. · MANCHESTER 2
ENGLAND**

IMPORTS AND EXPORTS

Imports into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos—By Countries

August 1950
Tons (2240 lbs.)

From Canada	46,813
S. Rhodesia	420
Union of S. Africa	908
Australia	21
Italy	5

48,167

Valued at \$3,267,510

By Grades:

Crude No. 1, Chrysotile, Canada	29
Crude No. 1, Chrysotile, S. Rhodesia	151
Crude No. 2, Chrysotile, S. Rhodesia	169
Crude Other, Chrysotile, Canada	10
Crude, Blue, U. of S. Africa	314
Crude, Blue, Australia	21
Crude, Amosite, U. of S. Africa	463
Crude, Amosite, S. Rhodesia	100
Textile Fibres, Chrysotile, Canada	1,943
Textile Fibres, Chrysotile, Italy	5
Textile Fibres, Chrysotile, U. of S. Africa	131
Shingle Fibres, Chrysotile, Canada	4,336
Paper Fibres, Chrysotile, Canada	4,192
Other Fibres, Chrysotile, Canada (Short)	36,303

48,167

Manufactured Asbestos Goods:

August 1950
Quantity (Lbs.) Value

Asbestos Yarn		
United Kingdom	8,973	\$ 7,982
Asbestos Packing, Fabric		
United Kingdom	39	27
Asbestos Packing, Not Fabric		
Canada	30	16
United Kingdom	2,119	1,015
Asbestos Woven Fabrics, Other		
Canada	60	227
United Kingdom	8	6
Germany	22	43

(Continued on page 36)

Asbestos

Packed in Jute Bags

*Guaranteed minimum
screen test:*

#5 0-0-10-6

#6 0-0-7-9

For Domestic Buyers:

Prompt delivery and
on contract up to one year.

For Export Buyers:

Prompt shipment and
deliveries until February 1951.
(Barter deals considered)

HUXLEY-WESTFRIED CORPORATION

**350 - 5th Avenue
NEW YORK 1**

Cable address: WESTOFF NEWYORK

Manufactured Asbestos Goods—Continued

	August 1950	
	Quantity (Lbs.)	Value
Asbestos Brake Lining (Molded)		
Canada	95	87
United Kingdom	676	486
Asbestos Cement Products (Not Impreg.)		
Canada	831,555	38,166
Asbestos Cement Products (Impreg.)		
Canada	10,060	1,089
Asbestos Manufactures		
Canada		9
United Kingdom		146
	853,637	\$49,299

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	August 1950	
	Tons (2240 lbs.)	Value
To United Kingdom	15	\$ 2,925
S. America		
Central America and Mexico	111	9,818
Europe	386	89,149
Other Countries	540	120,001
	1,052	\$221,893

Manufactured Asbestos Goods:

	August 1950	
	Quantity	Value
Asbestos Pipe Covg. & Cement	Lbs. 295,869	\$ 19,476
Asbestos Textiles and Yarn	Lbs. 98,146	56,065
Asbestos Packing	Lbs. 118,059	97,654
Asbestos Brake Lng. (Mld.&S.Mld)	Lbs. 253,846	211,916
Asbestos Brake Lng. (Woven)	L. Ft. 28,850	21,454
Asbestos Clutch Facings	No. 73,500	43,007
Asbestos Brake Blocks	Lbs. 26,003	23,853
Asbestos Construction Materials	Lbs. 2,460,188	141,748
Asbestos Manufactures—Other		50,330
		\$665,503

PRODUCTION

Manufacturer has several production management and supervisory positions available. Interested in men familiar with asbestos and allied materials. Permanent opportunity. Submit complete resume. Address Box 12U-C, "ASBESTOS", 808 Western Saving Fund Bldg., Phila., 7, Pa.

PHILLIPS ASBESTOS MINES

Producers of

CRUDES

and

Fiberized Asbestos

The World's Finest Fibre



Merry Christmas

DRAWER 71

GLOBE, ARIZONA

Mines and Mills in Gila Co., Arizona

Exports from Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos

		September 1950	
		Tons (2000 lbs.)	Value
<i>Crude</i>			
United States	66	\$	45,873
United Kingdom .....	..	
South America .....	..	
Central America & Mexico .....	..	
European Countries	14		9,471
Other Countries	48		33,659
	128	\$	89,003
<i>Milled</i>			
United States	20,101	\$	2,612,834
United Kingdom	1,980		250,572
South America	165		14,559
Central America & Mexico	400		60,630
European Countries	2,063		316,579
Other Countries	2,254		320,431
	26,963	\$	3,575,605
<i>Shorts</i>			
United States	51,117	\$	2,111,283
United Kingdom	593		28,069
South America .....	..	
Central America & Mexico .....	..	
European Countries	1,315		73,975
Other Countries	805		58,048
	53,830	\$	2,271,375
<i>Grand Total—Unmanufactured Asbestos</i>	80,921	\$	5,935,983
<i>Manufactured Asbestos Goods:</i>			
Brake Lining		\$	38,337
Packing			1,465
Other Materials			61,763
		\$	101,565

... —

A good driver is one who obeys the traffic rules and is quick enough to dodge those who don't.—*Brake Service.*

... —

You can make more friends in two months by becoming interested in other people than you can in two years by trying to get other people interested in you.

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TEEGANA MINES LTD.

Schumacher, Ontario, Canada

announces

the commencement of production

and the appointment of our

Exclusive Distributors

CANADIAN CHRYSOTILE FIBRES LTD.

314 Montreal Trust Bldg.

67 Yonge St.

Toronto, Canada

AUSTRALIA - Asbestos Statistics

(Published by Bureau of Mineral Resources, Geology and Geophysics, Department of Supply and Development, Melbourne, Victoria, Australia)

1st Quarter 1950
Ending March 30, 1950
(Tons—2240 lbs.)

Production		
Chrysotile	148 tons valued at £A 10,062	
Crocidolite	171 tons valued at £A 23,896	
Amphibole	60 tons valued at £A 144	
Imports		
Chrysotile	2,640 tons valued at £A164,877	
Crocidolite	243 tons valued at £A 23,372	
Amosite	3,776 tons valued at £A 59,215	
Other	867 tons valued at £A 54,542	

Total Imports—7,526 tons valued at £A302,006

Exports
44 tons valued at £A 4,745

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Copies of patents can be obtained by sending 25c (in coin) to The Commissioner of Patents, Washington, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Insulating Material. No. 2,520,914. Granted on September 5, 1950 to James C. Crawford, Jr., White Plains, N. Y. Assignor to Johns-Manville. Application February 1, 1946. Serial No. 644,954.

Apparatus for Fluffing Asbestos. No. 2,522,936. Granted on September 19, 1950, to James E. Ferguson, New Hyde Park, N. Y. Application May 17, 1948. Serial No. 27,376.

Reinforced Asbestos Tape. No. 2,523,022. Granted on September 19, 1950, to Walter E. Horstman, York, Pa. Assignor to General Electric Co. Application December 31, 1949. Serial No. 136,213.

Method of Producing Paper Base Plastic. Sheet Material. No. 2,525,310. Granted on October 10, 1950 to Izador J. Novak, Trumbull, Conn., Assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Application November 30, 1944. Serial No. 566,023.

Apparatus for Producing Pipes. No. 2,528,353. Granted on October 31, 1950, to John Ferla, East Orange, N. J., Assignor to U. S. Asbestos Cement Pipe Co., Camden, N. J. Application November 3, 1944. Serial No. 561,727.

Apparatus for Texturing Asbestos-Cement Sheets. No. 2,529,175. Granted on November 7, 1950, to William L. Nelson, Ferguson, Mo. Assignor to U. S. Gypsum Co., Chicago, Ill. Application March 9, 1946. Serial No. 653,359.

NEWS OF THE INDUSTRY

BIRTHDAYS

- J. H. Brown, Director, G. A. MacArthur Co., St. Paul, Minn., December 19.
- George J. Pecaro, General Manager, The Flintkote Co., Pioneer Division, Los Angeles, Calif., December 20.
- Harry C. Redstone, Secretary, Asbestos Distributors, Inc., Port Chester, N. Y., December 20.
- Geo. N. Clark, Clark Asbestos Co., Cleveland, Ohio, December 22.
- R. L. Clark, Manager, Clark Asbestos Co., Cleveland, Ohio, December 22.
- Wm. Nanfeldt, Vice President, World Bestos Corp., New Castle, Ind., December 22.
- Al Kevelson, Ace Asbestos Mfg. Co., Jersey City, N. J., December 24.
- Jacob P. Epstein, President, Empire Asbestos Products, Inc., Glendale, L. I., N. Y., December 25.
- Amor P. Smith, Vice President and Secretary, Russell Mfg. Co., Middletown, Conn., December 25.
- Matthew J. Fitzgerald, President, Standard Asbestos Mfg. Co., Chicago, Ill., December 27.
- A. G. Newton, President, Rockbestos Products Corp., New Haven, Conn., December 28.
- E. E. Tanguy, District Manager, Armstrong Cork Co., Baltimore, Md., December 28.
- Fred A. Mett, President, Powhatan Mining Corp., Baltimore, Md., December 29.
- P. S. Nash, Vice President, Union Asbestos & Rubber Co., Chicago, Ill., December 31.
- Harold O. Weise, Vice President, Tilo Roofing Co., Stratford, Conn., January 4.
- Rupert St. G. Riley, Director, The Cape Asbestos Co., London, W. I., England, January 6.
- James B. Anchors, Sales Manager, Kelley Asbestos Products Co., Kansas City, Mo., January 7.
- J. C. Kelleher, Sales Manager, Asbestos Fibre Division, Canadian J-M Co., Ltd., Montreal, P. Q., Canada, January 10.
- R. H. Chase, Manager, Insulation Division, Pabco Products, Inc., San Francisco, Calif., January 11.
- F. J. Quinn, Secretary & Treasurer, Smith Asbestos Products, Inc., Millington, N. J., January 16.

Best wishes and congratulations are extended to these gentlemen on the occasion of their birthdays.

**ASBESTONE BUILDS
New Plant Near St. Louis**

Asbestone Corporation are starting construction work on a new asbestos-cement shingle plant in North St. Louis.

The building will be 500' x 120'; one Hatschek process wet machine will be installed, to manufacture a complete line of siding shingles. The plant is expected to be in operation by May 1, 1951.

At present they operate a three machine plant in New Orleans, where they make siding shingles, roofing shingles, flat wallboard and corrugated.

**K. & M. CO. PLAN ASBESTOS-CEMENT
PLANT AT SANTA CLARA, CALIF.**

The Keasbey & Mattison Company has purchased a 26 acre plant site in the city of Santa Clara, Santa Clara Co., California.

Plans for the construction of a plant to produce asbestos-cement products are going forward but no definite date for starting work on the new plant has as yet been established.

**SALE OF INTERNATIONAL ASBESTOS CO. TO
DOMINION ASBESTOS MINES, LTD.**

From a newspaper clipping we learn that at a meeting of the International Asbestos Co., Ltd., held at Sherbrooke, Quebec, the shareholders ratified, confirmed and approved the sale of the company's property, plant, machinery and equipment to Dominion Asbestos Mines, Ltd., in consideration of the issue to International Asbestos Co., Ltd., of 1,250,000 fully paid and non-assessable shares of Dominion Asbestos Mines, Ltd.

**UNARCO LEASES BUILDING
IN BLOOMINGTON, ILL.**

Union Asbestos & Rubber Company, Chicago, has leased the former locomotive shop of the Gulf, Mobile & Ohio Railroad in Bloomington, Ill. The building has been vacant since 1946 when GM&O converted from steam to diesel power.

With more than 180,000 sq. ft. of floor space, the Bloomington plant will be UNARCO's largest single plant, others being located at Cicero, Earlville and Blue Island, Illinois; Paterson, N. J.; McGregor, Texas and Marshville, North Carolina.

The building, now being reconditioned, will be operated as a part of UNARCO's Fibrous Products Division, and equipment will be installed to manufacture asbestos insulations and other fibrous specialties for industrial use.

FLINTKOTE WINS ANNUAL REPORT AWARD

For the third time in the last four years the Flintkote Company was awarded the Financial World magazine's "Bronze Oscar" for having submitted the best Annual Report in the entire Building Material Field.

• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD YARNS
ROVINGS POWDER CLOTHS
 PROCESSED FIBRES

Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia insulation

The **CAPE ASBESTOS CO.** Limited

114-116 Park Street, London, W. 1.

FACTORY, BARKING, ESSEX

United States Sales Agent:

ARNOLD W. KOEHLER

415 LEXINGTON AVE.

NEW YORK CITY

TELEPHONE—VANDERBILT 6-1477

AMERICAN BRAKE SHOE CO.
Third Quarter Report

Sales of the American Brake Shoe Company during the nine months ending September 30, 1950 amounted to \$71,698,668.

Net income for the first nine months of this year was \$3,848,367 or \$3.27 per share of common stock, compared with \$3,413,032 or \$2.84 a share for the same period of 1949.

Shipments for the third quarter amounted to \$25,208,952, compared with \$19,544,444 in the third quarter of 1949 and \$25,021,435 in the second quarter of this year.

Public and private works and utilities totaled \$238,231,000, 6 per cent lower than the August figure but 7 per cent higher than September last year.

JOHNS-MANVILLE'S Roof Savers

A folder under the above name has been issued by Johns-Manville which describes various roof coatings for asphalt or asbestos felt roofs. The folder gives much factual information and may be obtained by request from the company at 22 E. 40th St., New York 16.

AMERICAN BRAKE SHOE COMPANY
Has Heavy Backlog

It is estimated that fourth quarter shipments of the company will equal the rate reached during the peak war period. Backlog of orders has increased to \$27,500,000, an increase of \$14,000,000 since the beginning of the year.

MANHATTAN ANNOUNCES SALES PROMOTIONS

John T. M. Frey has been appointed assistant manager of the New York Branch of Manhattan Rubber Division, and *Lamar S. Hilton* is now assistant sales manager of the Abrasive Wheel Department. Mr. Hilton has been a member of Manhattan's New York sales organization for many years; Mr. Hilton formerly served in the capacity of sales engineer.

THERMOID COMPANY ELECTS
William A. Blume Vice President

William A. Blume, a prominent figure in the automotive industry for many years, has been elected a Vice President of the Thermoid Company. Mr. Blume will be in charge of Thermoid's original equipment business for the automotive industry in Detroit.

Mr. Blume was previously President of the American Brake-blok Division of the American Brake Shoe Company. A native of Sewickley Township, Pennsylvania, Mr. Blume graduated from Pennsylvania State College in 1915. He is a member of the Society of Automotive Engineers, the Society of Plastic Engineers and the American Guernsey Cattle Club. He is the inventor of numerous friction materials and braking devices on which U. S. patents have been issued.

FOR SALE

ASBESTOS FIBERIZERS

Two complete new type Christy & Norris 30-inch ball bearing units with spare parts.

New — original packing — arrive late December.

Reply to Box 12AL-N, "ASBESTOS"
808 Western Saving Fund Bldg.
Philadelphia 7, Pa.

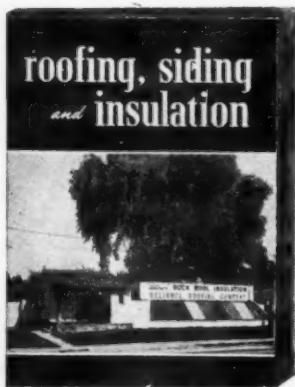
The plants manufacturing asbestos in more than 10 European countries await your offer thru the special periodical
Rubber and Asbestos

Send for specimen copies and the favorable prices of advertisement at our representatives in U.S.A.:

H. J. Wandless Company, Inc.

205 East 42nd Street, New York 17, N. Y.

A. W. Gentner - Verlag, Stuttgart
Germany



45 W. 45th St.

**.... SURE
WAY....**

**of selling the
nation's
roofing,
siding and
insulation
contractors!**

**CANTOR
PUBLISHING CO.**

New York 19, N. Y.

**ALBERT E. BINGER, JR., APPOINTED
Industrial Sales Manager of Carey**

Albert E. Binger, Jr., has been appointed Industrial Sales Manager of the Philip Carey Mfg. Co., as part of a program to strengthen Carey's sales position in the industrial field.

Mr. Binger has been sales manager of the built-up roofing and paint department. He joined Carey in early 1949 after having served in various other executive sales positions in the industrial field. Mr. Binger is a native of New York City, and received his schooling in the East.

**"PRODUCTION AND MARKETING
OF ASPHALT TILE"**

A 72 page booklet on the above subject has recently been prepared by Robert F. Lanzillotti, Assistant Professor of Economics, State College of Washington, at Pullman, Washington.

This book examines the economic aspects of the production and marketing of asphalt tile, gives a brief history of the industry, a description of the manufacturing processes involved and much other valuable information on the subject.

The book can be obtained for 75c—write State College of Washington, School of Economics and Business, and ask for Bulletin No. 16.

**TURNER & NEWALL
Correction Directors List**

Our October 1950 number contains on page 39 a list of Directors of Turner & Newall Ltd. The name of R. G. Soothill was inadvertently left out of this list. Mr. Soothill and Mr. H. Hanson are *Joint* Managing Directors. The correction should be made in your October number which you keep for reference.

**THERMOID COMPANY
Report for Nine Months**

Gross sales of Thermoid Co. for the nine months ending September 30, 1950, totalled \$20,436,502 compared with \$16,801,267 for the same period in 1949, or a net profit of \$1,068,063 in 1950, compared with \$481,412 in 1949, or \$1.29 per share in 1950 as against 50c per share in 1949.

**A. S. T. M. ISSUES STANDARDS
ON TEXTILE MATERIALS**

The October 1950 edition of their Standards on Textile Materials has recently been issued by the American Society for Testing Materials, 1916 Race St., Philadelphia 3, Pa.

The standards cover asbestos, bast and leaf fibres, cotton, glass textiles, rayon, silk, wood and many general testing methods. New standards include magnetic rating of asbestos used for electrical purposes.

The book contains 584 pages, and in heavy paper cover can be obtained at the above address at \$4.50.

ACE ASBESTOS MANUFACTURING CO.



Importers, Exporters, Processors of
Asbestos Fibres of All Varieties

of
RAW ASBESTOS

for
Every Use

•
CHRYSTILE

AMOSITE

AMPHIBOLE FIBRES

originating in
U. S. A. (ARIZONA)

CANADA

RUSSIA

CHINA

INDIA

RHODESIA

SOUTH AFRICA

•
Large Capacity Fiberizing and
Grading Plant

451 Communipaw Ave.

Jersey City, N. J.

**ARTICLE IN PRINTERS' INK BY
Frank J. Smith of Philip Carey Mfg. Co.**

An article by Frank J. Smith, Manager of advertising and sales promotion of Carey, appeared in the November 3rd issue of Printer's Ink. The article was titled "Mothballs Aren't for Salesmen".

**UNION ASBESTOS & RUBBER CO.
Report for Nine Months Ending Sept. 30th**

Earnings report for the Union Asbestos & Rubber Co., Chicago, for the nine months period ending September 30, 1950 shows \$5,991,833 net sales against \$7,178,695 for the similar period in 1949. Net Profit for the 1950 period was \$232,134, compared with \$616,643 for the same period in 1949, or 49c per share in 1950 against \$1.24 in 1949.

ROCKBESTOS MAKES TWO APPOINTMENTS

Charles A. Berlepsch was appointed to the newly created post of director of purchases; Raymond B. Minter was named as purchasing agent.

Mr. Berlepsch has been sales manager of the Appliance Products Division of Rockbestos for the past ten years and is widely known in the wire and cable industry. He joined Rockbestos in 1918 and was transferred to the Sales Department in 1923.

Mr. Minter has been assistant purchasing agent since 1942. His first job with Rockbestos was as a stenographer in 1929. In 1935 he was transferred to the Purchasing Department.

... —

The physiological aspects of air conditioning is one of the subjects which will be discussed in an important group of papers at the 57th Annual Meeting of The American Society of Heating & Ventilating Engineers which will be held in Philadelphia, January 22nd to 25th, 1951. Meeting headquarters will be at the Bellevue-Stratford Hotel.

... —

The days are gone when you could peer thru any of a hundred knotholes and see a ball game free—they're using that kind of lumber to put into \$27,000 houses.

—*Brake Service.*

... —

Give us clear vision that we may know where to stand and what to stand for, because unless we stand for something, we shall fall for anything. —*Peter Marshall.*

ASBESTOS FIBRE

CRUDE NO. 1

CRUDE NO. 2

SHINGLE FIBRES

CAPE BLUE

AMOSITE

**A NEW MODERN ASBESTOS PLANT
WITH REVOLUTIONARY EQUIPMENT**

Your inquiries are invited.

We are specialists in blending and refining
fibres for any type of work. Experience with
many industries shows better results than using
the standard numbers.

ASBESTOS FIBRES, INC.

Main Office:

56 CRITTENDEN ST., NEWARK, N. J.

HUMBOLDT 5-2372

TOPICAL INDEX

ASBESTOS - For the Year 1950

Acoustile Treatment

- Oct. 1950— 4 Acoustic Materials (I)
- Nov. 1950— 6 Acoustic Materials (II)
- Dec. 1950— 6 Acoustic Materials (III)

Amosite

- June 1950—18 Amosite, Milling

Asbestos Cement Products

- Mar. 1950—20 "Storm-Lap" Roof Shingle
- May 1950—14 Corrugated used in Unique Design
- May 1950—16 Smoothgrain Permatones (Siding)
- June 1950—14 Corrugated as Dome of Roof

Asbestos in Various Industries

- May 1950— 6 Asbestos Modelling in Schools
- July 1950—14 The Air Filtering Industry

Australia

- July 1950—12 Mineral Resources of Australia

Biographies

- Feb. 1950—16 Frank H. Mohr

Blue Asbestos

- June 1950—18 Blue—Milling

Chrysotile

- May 1950— 2 A Peculiar Form of Chrysotile

Cloth or Clothing

- Mar. 1950— 8 Colorbestos—Asbestos Drapery Material
- Apr. 1950— 8 Draperies of Asbestos Glass Fabric

Filtering

- July 1950—14 The Air Filtering Industry

General Articles on Asbestos

- Sept. 1950— 4 Varieties and Uses of Asbestos (by Dr. Oliver Bowles)

Geology

- Aug. 1950— 4 Geology of Asbestos Deposits of Southern Rhodesia

Installation Stories

- June 1950—14 Corrugated Used as Roof of Dome

Magnesia—85%

- Apr. 1950—11 Tests on 85% Magnesia (M.I.M.A.)
- Apr. 1950—20 85% Magnesia Withstands Wetting and Drying (M.I.M.A.)

Milling Asbestos

- June 1950—18 Milling Amosite and Blue

Packings

- May 1950—18 Non-Jacketed Plastic Packing

Rhodesia

- Aug. 1950— 4 Geology of Asbestos Deposit
- Aug. 1950—14 Report on

B

ROVINGS

WEBBINGS

YARNS

TUBING

B

CLOTHS

JOINTINGS

TAPES

PACKINGS



BRITISH BELTING & ASBESTOS LTD.

CLECKHEATON · YORKSHIRE · ENGLAND

London Office : 59, Southwark Street, S.E.1

Service Tales

Jan. 1950—25	Emergency Repair
Mar. 1950—18	The Saving of Provincetown
Apr. 1950—20	85% Magnesia Withstands Wetting and Drying
Oct. 1950—16	Trial by Fire (Asbestos Shingles)

Uses (General Lists)

Mar. 1950—14	Asbestos Fibre, Short & Floats and their Uses in Industry
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Uses—Odd

Mar. 1950—11	Asbestos for Heart Trouble
May 1950—6	Modelling in Schools—Contour Maps, Oriental Masks, Animals
May 1950—18	Automotive Undercoater
July 1950—14	Air Filtering Industry
Aug. 1950—38	Jewelry Block (85% Magnesia)
Oct. 1950—44	Keeps Mildew Off Grapes (in Cyprus)
Dec. 1950—18	Asbestos Cement Lining for old Cast Iron Pipe

Various Asbestos Products

Jan. 1950—30	De Luxe Flexboard
Feb. 1950—14	Insulation Board—New Finishes
Mar. 1950—8	Colorbestos—Asbestos Drapery Material
Mar. 1950—20	Stormlap A/C Roof Shingle
Apr. 1950—18	Tempchek—Insulation for High Temperatures
Apr. 1950—18	Asbestos Cap Sheet for Builtup Roofing

Various Locations of Asbestos

Jan. 1950—24	South Africa and Egypt
Feb. 1950—10	Japan (with Graphs)
Feb. 1950—4	Kenya Colony, Korea
Feb. 1950—6	Madagascar, Newfoundland
Feb. 1950—8	New Zealand
Mar. 1950—10	Chateau Queyras, France
Mar. 1950—47	Chile
Apr. 1950—12	Portugal, Switzerland, Spain
Apr. 1950—14	Turkey
Apr. 1950—50	Saskatchewan (Canada)
June 1950—10	Cyprus
June 1950—16	Alaska
July 1950—20	Ontario
Sept. 1950—12	Egypt
Sept. 1950—16	France
Oct. 1950—44	Cyprus
Nov. 1950—16	British Columbia
Nov. 1950—50	New Zealand

Yarn

June 1950—4	Speaking About Asbestos Yarn (I) by Gerd M. Bloomfield
July 1950—6	Speaking About Asbestos Yarn (II)
Aug. 1950—10	Speaking About Asbestos Yarn (III)

CENTRAL ASBESTOS CO LTD

FIBRES — all varieties
supplied and processed to meet
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**All types of ASBESTOS CEMENT PIPE MAKING
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MAZZA, DALMINE and other Systems

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**Complete Plants Planned, Delivered and Erected
Steel Mandrels, Steel Moulds for Corrugated and
Flat Sheets**

Modern Asbestos Openers

STOCK'S ENGINEERING COMPANY S. a r.l.

Inc. Durite Tecnica

24, Via di Cavana, Trieste, Italy

Cables: STOCKSDURITE—TRIESTE

BOOK LIST

- The Asbestos Factbook**, 16 pages. Information in compact form on origin, facts, locations, uses, analyses, qualities, 10c per copy.
- Asbestos Mining Methods**. By C. V. Smith. (Reprint) 16 pages. 25c per copy.
- Milling Asbestos**. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy.
- Recovery of Raw Asbestos**. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25c per copy.
- Canadian Chrysotile Asbestos Classification**. Including latest Quebec Testing Method. January 1, 1949 Edition. 4 pages. 25c per copy.
- Processing Asbestos Fibres**. 8 pages. (Reprint) 25c per copy
- Tests for Cotton Content**. 4 pages (Reprint) Describing several methods of testing asbestos textile for cotton content. 10c per copy.
- Chart—Dollars Cost of Uninsulated Pipe**. (Reprint) 20c each
- Brake Linings of Various Types**, By R. T. Halstead. Reprint (12 pages) from August, September and October 1949 "ASBESTOS". Price 25c per copy.
- Asbestos—The Silk of the Mineral Kingdom**, by Oliver Bowles. 40 pages about asbestos, from mine to finished products, in plain language, illustrated, 25c a copy.
- Twelve Estimating Tables**, with Chart. Convenient in figuring flange fittings and other areas. \$1.00 per set.
- Manual of Unit Prices**. For figuring pipe covering and blocks. 75c per single copy postpaid. Discount in quantities of 6 or more, postage billed.
- Order any of the above from "ASBESTOS", 808 Western Saving Fund Bldg., Philadelphia 7, Pa. Postage stamps acceptable for amounts less than \$1.00.

— . . .

Therefore, come what may, hold fast to love
 Tho men should rend your heart
 Let them not embitter or harden it.

We win by tenderness; we conquer by forgiveness.

—W. Robertson

. . . —

Quiet minds cannot be perplexed or frightened, but go on in fortune or misfortune at their own private pace, like a clock during a thunderstorm.

—Robert Louis Stevenson.

AFTERTHOUGHTS

🌲 INDUSTRIAL LABORATORIES, a new publication, just launched this fall, may be of interest to some of our readers. It is described as a comprehensive news medium for laboratory engineers, scientists and technicians of all skills. Sample copy can probably be obtained by request from the Industrial Laboratories Publishing Co., 201 N. Wells St., Chicago 6, Ill.

🌲 We have an inquiry for a source of supply of mountain leather (a type of asbestos). Please send us any information you may have on this material.

🌲 Don't forget (and this is written especially for those in or near Chicago) that the 7th Annual Convention and Exposition of the National Association of Home Builders opens in Chicago, January 21st, at the Congress and Stevens Hotels.

🌲 In our November number we told you about the McDame Creek deposit of asbestos (in British Columbia). Now we have a sample of this material (sent us by Mr. Clyde H. Shoemaker) and it is more than usually interesting as it is a good grade, and fair length, chrysotile material. We shall be glad to show it to anyone who calls.

🌲 According to newspaper clippings, four large deposits of asbestos have been discovered in Central Serbia. The quality is said to be equal to Canadian, which would be interesting if true.

🌲 At the International Trade Fair held recently in the American sector of Berlin, an American pre-fabricated house produced by Page & Hill Homes of Shakopee, Minn., proved a popular attraction; about 4000 people going thru it each day. It had a Ruberoid asphalt shingle roof.

🌲 Our message to all:

Merry Christmas

CURRENT RANGE OF PRICE

As of December 10, 1950

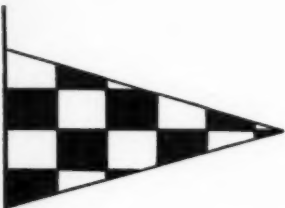
Canada—		Per Ton (2000 lbs.) f.o.b. Mine	
Group No. 1 (Crude No. 1)	.....	\$960.00 to	\$1,050.00
Group No. 2 (Crude No. 2; Crude Run-of-Mine and Sundry)	.....	400.00 to	550.00
Group No. 3 (Spinning Fibre)	.....	250.00 to	425.00
Group No. 4 (Shingle Fibre)	.....	105.00 to	155.00
Group No. 5 (Paper Fibre)	.....	85.00 to	97.00
Group No. 6 (Waste, Stucco or Plaster)	.....		63.00
Group No. 7 (Refuse or Shorts)	.....	30.00 to	57.00
Vermont—		Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.	
Group No. 4 (Shingle Fibre)	.....	\$122.65 to	\$148.50
Group No. 5 (Paper Fibre)	.....	\$6.90 to	106.15
Group No. 6 (Waste, Stucco or Plaster)	.....		64.90
Group No. 7 (Refuse or Shorts)	.....	31.20 to	57.60

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial and Financial Chronicle. No guarantee as to their correctness).

November 1950

	Par	Low	High	Last
Amer. Brake Shoe (Com.)	np	37½	40%	39½
Amer. Brake Shoe (Pfd)	100	105	109	109
Armstrong Cork (Com.)	np	46%	50¼	49
Armstrong Cork (Pfd.)	np	102¾	106¼	103¾
Armstrong Cork (Conv. Pfd.)	np	110	114½	113
Asb. Corp. (Com.)	np	33½	38	37¾
Asb. Mfg. Co. (Com.)	1	1	1½	1½
Carey	10	15¼	17½	16¼
Celotex (Com.)	np	14	15¾	14¾
Celotex (Pfd.)	20	16½	16%	16¾
Certainteed (Com.)	1	13¼	15½	14¼
Flintkote (Com.)	np	24	26¾	24½
Flintkote (Pfd.)	np	103¼	106½	104½
Johns-Manville (Com.)	np	41%	48½	46½
Paraffine (Com.)	np	15%	17½	16%
Paraffine (Pfd.)	100	98½	101½	101½
Ray-Man (Com.)	np	32½	35¾	34¾
Ruberoid (Com.)	np	46½	55	46½
Thermoid (Com.)	1	7	8%	8
Thermoid (Pfd.)	50	37½	42	41½
Union Asb. & Rub. (Com.)	5	11½	12	11¾
United Asbestos (Com.)	1	68c	\$1.24	98c
U. S. Gypsum (Com.)	20	103½	114¾	111
U. S. Gypsum (Pfd.)	100	183	186	186
U. S. Rubber (Com.)	10	45%	51¾	47¼
U. S. Rubber (Pfd.)	100	132	142¼	133



EMERGENCY

In every organization there comes a time when new ideas must be developed into finished products with the greatest possible speed. The R/M research and development departments stand ready at all times to help in the creating and testing of new products in which asbestos plays a part. For more than half a century this organization has pioneered in putting asbestos to work in new ways.

RAYBESTOS-MANHATTAN, INC.

Asbestos Textile Division • Manheim, Pa.

Factories: Manheim, Pa.; No. Charleston, S.C.



RAYBESTOS-MANHATTAN, INC., Manufacturers of Asbestos Textiles
Packings • Mechanical Rubber Products • Abrasive and Diamond Wheels
Brake Linings • Brake Blocks • Clutch Facings • Fan Belts • Radiator Hoses
Rubber Covered Equipment • Powdered Metal Products • Bowling Balls

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Southern weaves a complete range of Asbestos Cloth. A large number of Standard and Special Cloths available in all styles, textures, grades, weights and thicknesses are shown here.

Our Textile Engineers and Research Department are continually developing specialized Asbestos Cloth and exploring new uses for our present cloths. Their service is available to you. Write for Bulletin No. 1004.

A COMPLETE LINE OF ASBESTOS TEXTILE PRODUCTS

**THREAD • CORD • ROVING • TUBING
CARDED FIBRE • LISTING TAPE
YARNS • ROPE • OIL BURNER WICK**

Southern Asbestos Company has over 25 years of specialized experience in developing and manufacturing Asbestos Textiles and Textile Products. Its technical and production facilities are available to help solve your problems involving asbestos fibre and textiles.

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